RAGLAN SLEEVE TUCK STITCH PATTERN BOOK

HOBKIRK'S
SEWING CENTRES
£2·40P

BASIC TUCK STITCH CARD 1

3 PLY · 4 PLY · DOUBLE KNIT

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IMPORTANT NOTES

Figures in heavy type refer to card 1 used in standard position i.e. pattern card rotating every row.

Figures in lighter type refer to card 1 used in double length position i.e. pattern card rotating every second row.

These patterns are to be used with your No 1. card which comes in your basic set of punchcards and with your main carriage set to Tuck. Do not use this pattern book if wanting to knit plain stocking stitch, fairisle or lace.

Thickness of yarn varies even within a similar range. It is very important to knit a sample swatch over at least 60 stitches and 80 rows. Let this piece rest for 24 hours before measuring, especially if the yarn contains wool. Shetland wool samples should be washed and pressed before measuring.

N.B.

Sleeves are wider at the top than a normal raglan sleeve pattern. This is so that the sleeve head fits better across the shoulder.

The stitches left at the top of the sleeve should then be incorporated in the neckband.

The garments on the following pages have been test-knitted over a number of years on various knitting machines, using yarns ranging from branded yarns to industrial yarns stranded to the correct thickness. It is always easier to achieve the right number of stitches per inch than the right number of rows. Rows for length can be added or subtracted to achieve the right length for the garment.

The following are the most popular counts available:

2/ 8 using 1 strand = 4 ply
2/16 using 1 strand = 2 ply
2/16 using 2 strand = 4 ply
2/20 using 2 strand = 4 ply
2/24 using 2 strand = 3 ply
2/28 using 3 strand = 3 ply or soft 4 ply
2/30 using 1 strand)
2/32 using 1 strand) Approximately 1 ply

The latter two are the most popular of all and can be used to knit any required thickness including double knitting.

	2 ply	is generally knitted on tension 2-4
	3 ply	is generally knitted on tension 4-5
Soft	4 ply	is generally knitted on tension 5-7
Full	4 ply	is generally knitted on tension 6-7
Soft	D.K.	is generally knitted on tension 7-9
Full	D.K.	is generally knitted on tension 8-10

BASIC MEASUREMENTS

SIZES	ins	18	20	22	24	26	28	30	32	34	36	38	40	42	44
	cms	45	50	55	60	65	70	75	80	85	90	95	100	105	110
FINISHED GARMENT	ins	20	22	24	26	28	30	32	34	36	38	40	42	44	46
MEASUREMENT	cms	50	55	60	65	70	75	80	85	90	95	100	105	110	115
SIDE SEAM	ins	6½	7	8	9	10	12	13	14	14	15	16	16	16	16
	cms	16½	17½	20	22½	25	30	33	35	35	38	40	40	40	40
SLEEVE LENGTH	ins	7	7½	9	11	12½	13½	14½	17	18	18	18	19	19	19
LONG	cms	17½	19	22½	27½	31½	34	36	45	45	45	45	47	47	47
SLEEVE LENGTH	ins	1	1	1½	1½	1½	2	2	2½	2½	3	3	3½	4	4
SHORT	cms	2½	2½	4	4	4	5	5	6½	6½	7½	7½	9	10	10

Please adjust any lengths to suit your own personal requirements.

3 PLY

SWEATER BACK - ALL STYLES

TENSION: 6.5 sts and 18 rows to 1" — **punchcard standard length**

TENSION: 6.5 sts and 20 rows to 1" — *punchcard double length*

SIZES:														
	ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1	**C. on ★★★ stitches**	**66**	**72**	**78**	**86**	**92**	**98**	**104**	**114**	**118**	**124**	**130**	**138**	**144**	**150**
		66	*72*	*78*	*86*	*92*	*98*	*104*	*112*	*118*	*124*	*130*	*138*	*144*	*150*
2	**RC.000 Knit hem 36 rows rib 20 rows.**														
3	**Insert punchcard and change to tuck stitch tension RC 000**														
4	**Knit until row counter reads ★★★ rows.**	**82**	**90**	**108**	**126**	**144**	**180**	**198**	**216**	**216**	**234**	**252**	**252**	**252**	**252**
		90	*100*	*120*	*140*	*160*	*200*	*220*	*240*	*240*	*260*	*280*	*280*	*280*	*280*
5	**Commence raglan by casting off ★★★ sts at beg next 2 rows.**	**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*	*6*
6	**K 2 rows. Dec 1st at each end on next and ev. foll 6th row until ★★★ sts remain.**	**62**	**62**	**70**	**78**	**64**	**60**	**70**	**68**	**66**	**84**	**102**	**102**	**120**	**138**
		54	*62*	*62*	*68*	*52*	*60*	*70*	*50*	*66*	*84*	*102*	*84*	*120*	*120*
7	**K 3 rows. Dec 1st at each end of next and ev. foll 4th row until ★★★ sts remain.**	**26**	**30**	**32**	**36**	**40**	**42**	**46**	**48**	**48**	**48**	**48**	**52**	**52**	**52**
		26	*30*	*32*	*36*	*40*	*42*	*46*	*48*	*48*	*48*	*48*	*52*	*52*	*52*
8	**K 2 rows.**														
9	**C. off loosely.**														

3 PLY
SWEATER FRONT - ROUND NECK

TENSION: 6.5 sts and 18 rows to 1" — **punchcard standard length**
TENSION: 6.5 sts and 20 rows to 1" — *punchcard double length*

SIZES:														
	ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1 Same as back until ★★★ sts remain.		**32**	**38**	**42**	**46**	**52**	**54**	**60**	**62**	**62**	**62**	**62**	**66**	**66**	**66**
		32	*38*	*42*	*46*	*52*	*54*	*60*	*62*	*62*	*62*	*62*	*66*	*66*	*66*
2 Cast off ★★★ sts at centre of work		**14**	**16**	**16**	**18**	**20**	**22**	**22**	**22**	**24**	**24**	**24**	**24**	**24**	**24**
		14	*16*	*16*	*18*	*20*	*22*	*22*	*22*	*24*	*24*	*24*	*24*	*24*	*24*
3 Work on one half only and **AT THE SAME TIME** continue raglan shaping as before and decrease 1st at neck edge on every 2nd row ★★★ times.		**6**	**7**	**8**	**9**	**10**	**10**	**12**	**13**	**12**	**12**	**12**	**14**	**14**	**14**
		6	*7*	*8*	*9*	*10*	*10*	*12*	*13*	*12*	*12*	*12*	*14*	*14*	*14*

4 Continue raglan shaping until all sts are decreased.

5 Work 2nd half of neck as first half reversing all shapings

3 PLY
SWEATER FRONT - V NECK

TENSION: 6.5 sts and 18 rows to 1" — **punchcard standard length**
TENSION: 6.5 sts and 20 rows to 1" — *punchcard double length*

SIZES:														
	ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1	**Same as back to shape raglan.**														
2	**Commence raglan by casting off ★★★ sts at beg next 2 rows.**	**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*	*6*
3	**Place half Ns to H.P. and working over half work continue raglan shaping as for back and AT SAME TIME decrease 1st st at neck edge on next and ev foll ★★★ row.**	**5th**	**5th**	**5th**	**5th**	**5th**	**6th**	**5th**	**6th**	**6th**	**6th**	**6th**	**6th**	**6th**	**6th**
		6th	*6th*	*5th*	*5th*	*6th*	*6th*	*6th*	*7th*	*7th*	*7th*	*7th*	*7th*	*7th*	*7th*
	★★★ times in all	**13**	**15**	**16**	**18**	**20**	**21**	**23**	**24**	**24**	**24**	**24**	**26**	**26**	**26**
		13	*15*	*16*	*18*	*20*	*21*	*23*	*24*	*24*	*24*	*24*	*26*	*26*	*26*
4	**Continue raglan shaping only until all sts are decreased.**														
5	**Work 2nd half of neck as for first half, reversing all shapings.**														

3 PLY
SWEATER - LONG SLEEVE

TENSION: 6.5 sts and 18 rows to 1"
TENSION: 6.5 sts and 20 rows to 1"

— punchcard standard length
— punchcard double length

SIZES:														
	ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1	**Cast on ★★★ sts**	**40**	**40**	**40**	**46**	**46**	**48**	**48**	**48**	**48**	**48**	**58**	**64**	**70**	**76**
		40	*40*	*40*	*46*	*46*	*48*	*48*	*48*	*48*	*48*	*58*	*64*	*70*	*76*
2	**RC.000. Knit hem 36 rows rib 20 rows.**														
3	**Insert punchcard & change to tuck stitch tension RC000.**														
4	**Knit and increase 1 stitch at each end of next and every following ★★★ rows. until inc. to ★★★ sts.**	**15th**	**11th**	**14th**	**16th**	**11th**	**10th**	**11th**	**10th**	**9th**	**9th**	**9th**	**10th**	**10th**	**10th**
		16th	*12th*	*15th*	*18th*	*13th*	*11th*	*12th*	*11th*	*10th*	*10th*	*10th*	*11th*	*11th*	*11th*
		52	**58**	**58**	**66**	**78**	**88**	**98**	**100**	**108**	**108**	**118**	**122**	**128**	**134**
		52	*58*	*58*	*66*	*78*	*88*	*98*	*100*	*108*	*108*	*118*	*122*	*128*	*134*
5	**K straight until RC reads ★★★ rows or length required**	**90**	**100**	**126**	**162**	**190**	**208**	**226**	**270**	**288**	**288**	**288**	**306**	**306**	**306**
		100	*110*	*140*	*180*	*210*	*230*	*250*	*300*	*320*	*320*	*320*	*340*	*340*	*340*
6	**Commence raglan shaping by casting off ★★★ sts at beg next 2 rows.**	**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*	*6*
7	**K 2 rows. Dec 1st at each end of next and ev. foll 6th row until ★★★ sts remain.**	**48**	**48**	**50**	**58**	**50**	**50**	**54**	**50**	**56**	**68**	**90**	**86**	**104**	**122**
		40	*48*	*42*	*48*	*38*	*50*	*54*	*38*	*56*	*68*	*90*	*68*	*104*	*104*
8	**K 3 rows. Dec 1st at each end of next and ev. foll 4th row until ★★★ sts rem.**	**12**	**16**	**12**	**16**	**26**	**32**	**30**	**34**	**38**	**32**	**36**	**36**	**36**	**36**
		12	*16*	*12*	*16*	*26*	*32*	*30*	*34*	*38*	*32*	*36*	*36*	*36*	*36*
9	**K 2 rows.**														
10	**C. off loosely.**														

3 PLY
SWEATER - SHORT SLEEVE

TENSION: 6.5 sts and 18 rows to 1" — **punchcard standard length**
TENSION: 6.5 sts and 20 rows to 1" — *punchcard double length*

SIZES:														
ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1 C. on ★★★ sts.	**42**	**48**	**48**	**56**	**68**	**78**	**88**	**90**	**98**	**98**	**108**	**112**	**118**	**124**
	42	*48*	*48*	*56*	*68*	*78*	*88*	*90*	*98*	*98*	*108*	*112*	*118*	*124*
2 RC000. Knit hem 18 rows rib 10 rows.														
3 Insert punchcard & change to tuck stitch tension RC000.														
4 Knit and increase 1st at each end of next and every foll. 2nd row until increased to ★★★ sts.	**52**	**58**	**58**	**66**	**78**	**88**	**98**	**100**	**108**	**108**	**118**	**122**	**128**	**134**
	52	*58*	*58*	*66*	*78*	*88*	*98*	*100*	*108*	*108*	*118*	*122*	*128*	*134*
5 K straight until RC reads ★★★ rows or length required	**12**	**12**	**14**	**14**	**14**	**20**	**20**	**30**	**30**	**40**	**40**	**50**	**50**	**50**
	12	*12*	*14*	*14*	*14*	*26*	*26*	*38*	*38*	*50*	*50*	*60*	*60*	*60*
6 Commence raglan by casting off ★★★ sts at beg next 2 rows.	**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
	2	*2*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*	*6*
7 K 2 rows. Dec 1st at each end of next and ev. foll 6th row until ★★★ sts remain.	**48**	**48**	**50**	**58**	**50**	**50**	**54**	**50**	**56**	**68**	**90**	**86**	**104**	**122**
	40	*48*	*42*	*48*	*38*	*50*	*54*	*38*	*56*	*68*	*90*	*68*	*104*	*104*
8 K 3 rows. Dec 1st at each end of next and ev. foll 4th row until ★★★ sts remain.	**12**	**16**	**12**	**16**	**26**	**32**	**30**	**34**	**38**	**32**	**36**	**36**	**36**	**36**
	12	*16*	*12*	*16*	*26*	*32*	*30*	*34*	*38*	*32*	*36*	*36*	*36*	*36*
9 K 2 rows.														
10 C. off loosely.														

3 PLY
CARDIGAN BACK - ALL STYLES

TENSION: 6.5 sts and 18 rows to 1" — **punchcard standard length**
TENSION: 6.5 sts and 20 rows to 1" — *punchcard double length*

SIZES:														
	ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1	**C. on ★★★ sts.**	**68**	**74**	**80**	**88**	**94**	**100**	**106**	**116**	**120**	**126**	**132**	**140**	**146**	**152**
		68	*74*	*80*	*88*	*94*	*100*	*106*	*116*	*120*	*126*	*132*	*140*	*146*	*152*
2	**RC.000. Knit hem 36 rows rib 20 rows.**														
3	**Insert punchcard & change to tuck stitch tension RC000.**														
4	**Knit until RC reads ★★★ rows.**	**82**	**90**	**108**	**126**	**144**	**180**	**198**	**216**	**216**	**234**	**252**	**252**	**252**	**252**
		90	*100*	*120*	*140*	*160*	*200*	*220*	*240*	*240*	*260*	*280*	*280*	*280*	*280*
5	**Commence raglan by casting off ★★★ sts at beg next 2 rows.**	**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*	*6*
6	**K 2 rows. Dec 1st at each end of next and ev foll 6th row until ★★★ sts remain.**	**64**	**64**	**72**	**80**	**66**	**62**	**72**	**70**	**68**	**86**	**104**	**104**	**122**	**140**
		56	*64*	*64*	*70*	*54*	*62*	*72*	*52*	*68*	*86*	*104*	*104*	*122*	*122*
7	**K 3 rows. Dec 1st at each end of next and ev. foll 4th row until ★★★ sts remain.**	**28**	**32**	**34**	**38**	**42**	**44**	**48**	**50**	**50**	**50**	**50**	**54**	**54**	**54**
		28	*32*	*34*	*38*	*42*	*44*	*48*	*50*	*50*	*50*	*50*	*54*	*54*	*54*
9	**K 2 rows.**														
10	**C. off loosely.**														

3 PLY
CARDIGAN FRONT - ROUND NECK

TENSION: 6.5 sts and 18 rows to 1" — **punchcard standard length**
TENSION: 6.5 sts and 20 rows to 1" — *punchcard double length*

SIZES:														
	ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1	**C. on ★★★ stitches**	**34**	**37**	**40**	**44**	**47**	**50**	**53**	**58**	**60**	**63**	**66**	**70**	**73**	**76**
		34	*37*	*40*	*44*	*47*	*50*	*53*	*58*	*60*	*63*	*66*	*70*	*73*	*76*
2	**K same as for back until shape raglan.**														
3	**Commence raglan by casting off ★★★ sts at beg of next row. Knit 3 rows.**	**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*	*6*
4	**Keeping neck edge straight dec. raglan side only same as back until ★★★ sts remain.**	**17**	**20**	**22**	**24**	**27**	**28**	**31**	**32**	**32**	**32**	**32**	**34**	**34**	**34**
		17	*20*	*22*	*24*	*27*	*28*	*31*	*32*	*32*	*32*	*32*	*34*	*34*	*34*
5	**C. off ★★★ sts at neck edge.**	**7**	**8**	**8**	**9**	**10**	**11**	**11**	**11**	**12**	**12**	**12**	**12**	**12**	**12**
		7	*8*	*8*	*9*	*10*	*11*	*11*	*11*	*12*	*12*	*12*	*12*	*12*	*12*
6	**Continue raglan shaping as before and at same time decrease one stitch at neck edge every 2nd row ★★★ times.**	**6**	**7**	**8**	**9**	**10**	**10**	**12**	**13**	**12**	**12**	**12**	**14**	**14**	**14**
		6	*7*	*8*	*9*	*10*	*10*	*12*	*13*	*12*	*12*	*12*	*14*	*14*	*14*
7	**Decrease raglan side only until all sts have been decreased.**														
8	**Knit second front to match first, reversing all shapings.**														

3 PLY
CARDIGAN FRONT - V NECK

TENSION: 6.5 sts and 18 rows to 1"
TENSION: 6.5 sts and 20 rows to 1"

— punchcard standard length
— punchcard double length

SIZES:														
	ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1 C. on ★★★ sts.		**34**	**37**	**40**	**44**	**47**	**50**	**53**	**58**	**60**	**63**	**66**	**70**	**73**	**76**
		34	*37*	*40*	*44*	*47*	*50*	*53*	*58*	*60*	*63*	*66*	*70*	*73*	*76*
2 Knit same as for back until shape raglan.															
3 Commence raglan by casting off ★★★ sts at beg. of next row. Knit 3 rows.		**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*	*6*
4 Decrease raglan as for back AT SAME TIME decrease 1st at neck edge on next and ev. foll.		**5th**	**5th**	**5th**	**5th**	**5th**	**6th**	**5th**	**6th**	**6th**	**6th**	**6th**	**6th**	**6th**	**6th**
★★★ rows.		*6th*	*6th*	*5th*	*5th*	*6th*	*6th*	*6th*	*6th*	*7th*	*7th*	*7th*	*7th*	*7th*	*7th*
★★★ times in all.		**13**	**15**	**16**	**18**	**20**	**21**	**23**	**24**	**24**	**24**	**24**	**26**	**26**	**26**
		13	*15*	*16*	*18*	*20*	*21*	*23*	*24*	*24*	*24*	*24*	*26*	*26*	*26*
5 Continue raglan shaping only until all sts have been decreased.															
6 Knit second front to match first, reversing all shapings.															

3 PLY
CARDIGAN - LONG SLEEVE

TENSION: 6.5 sts and 18 rows to 1" — **punchcard standard length**
TENSION: 6.5 sts and 20 rows to 1" — *punchcard double length*

SIZES:														
	ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1	**C. on ★★★ stitches**	**42**	**42**	**42**	**48**	**48**	**50**	**50**	**50**	**50**	**50**	**60**	**66**	**72**	**78**
		42	*42*	*42*	*48*	*48*	*50*	*50*	*50*	*50*	*50*	*60*	*66*	*72*	*78*
2	**RC000. Knit hem 36 rows. rib 20 rows.**														
3	**Insert punchcard & change to tuck stitch tension RC000.**														
4	**Knit and increase 1 stitch at each end of next and ev. foll ★★★ row**	**15th**	**11th**	**14th**	**16th**	**11th**	**10th**	**11th**	**10th**	**9th**	**9th**	**9th**	**10th**	**10th**	**10th**
		16th	*12th*	*15th*	*18th*	*13th*	*11th*	*12th*	*11th*	*10th*	*10th*	*10th*	*11th*	*11th*	*11th*
	until inc to ★★★ sts	**54**	**60**	**60**	**68**	**80**	**90**	**100**	**102**	**110**	**110**	**120**	**124**	**130**	**136**
		54	*60*	*60*	*68*	*80*	*90*	*100*	*102*	*110*	*110*	*120*	*124*	*130*	*136*
5	**K straight until RC reads ★★★ or length required.**	**90**	**100**	**126**	**162**	**190**	**208**	**226**	**270**	**288**	**288**	**288**	**306**	**306**	**306**
		100	*110*	*140*	*180*	*210*	*230*	*250*	*300*	*320*	*320*	*320*	*340*	*340*	*340*
6	**Commence raglan shaping by casting off ★★★sts at beg next two rows.**	**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*	*6*
7	**K 2 rows. Dec 1st at each end of next and ev foll 6th row until ★★★ stitches remain**	**50**	**50**	**52**	**60**	**52**	**52**	**56**	**52**	**58**	**70**	**92**	**88**	**106**	**124**
		42	*50*	*44*	*50*	*40*	*52*	*56*	*40*	*58*	*70*	*92*	*70*	*106*	*106*
8	**Knit 3 rows. Dec 1st at each end of next and ev foll 4th row until ★★★ sts remain**	**14**	**18**	**14**	**18**	**28**	**34**	**32**	**36**	**40**	**34**	**38**	**38**	**38**	**38**
		14	*18*	*14*	*18*	*28*	*34*	*32*	*36*	*40*	*34*	*38*	*38*	*38*	*38*
9	**K 2 rows**														
10	**C. off loosely**														

4 PLY

RAGLAN SWEATER BACK - ALL STYLES

TENSION: 5.75 sts and 16.5 rows to 1" — **punchcard standard length**

TENSION: 5.75 sts and 20 rows to 1" — *punchcard double length*

SIZES:														
	ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1	**C. on ★★★ stitches**	**58**	**64**	**70**	**74**	**80**	**86**	**92**	**98**	**104**	**110**	**116**	**120**	**126**	**132**
		58	*64*	*70*	*74*	*80*	*86*	*92*	*98*	*104*	*110*	*116*	*120*	*126*	*132*
2	**RC000. Knit hem 36 rows. rib 20 rows.**														
3	**Insert punchcard & change to tuck stitch tension RC000.**														
4	**K until RC reads ★★★rows**	**74**	**82**	**100**	**116**	**132**	**166**	**182**	**198**	**198**	**214**	**232**	**232**	**232**	**232**
		90	*100*	*120*	*140*	*160*	*200*	*220*	*240*	*240*	*260*	*280*	*280*	*280*	*280*
5	**Commence raglan shaping by casting of ★★★ sts at beg next 2 rows**	**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*	*6*
6	**K 2 rows. Dec 1st at each end of next and ev foll 6th row until ★★★ sts remain**	**50**	**56**	**64**	**60**	**50**	**44**	**58**	**44**	**48**	**66**	**106**	**90**	**108**	**112**
6	*K 2 rows. Dec 1st at each end of next and ev foll ★★★ row until ★★★ sts remain*	*6th*	*6th*	*6th*	*6th*	*8th*	*8th*	*8th*	*8th*	*8th*	*8th*	*6th*	*8th*	*6th*	*6th*
		34	*40*	*48*	*42*	*66*	*60*	*78*	*60*	*66*	*90*	*64*	*106*	*62*	*80*
7	**K 3 rows. Dec 1st at each end of next and ev foll 4th row until ★★★ sts remain**	**24**	**26**	**28**	**32**	**34**	**38**	**40**	**44**	**44**	**44**	**44**	**46**	**46**	**46**
7	*K 3 rows. Dec 1st at each end of next and ev foll ★★★ row until ★★★ sts remain*	*4th*	*4th*	*4th*	*4th*	*6th*	*6th*	*6th*	*6th*	*6th*	*6th*	*4th*	*6th*	*4th*	*4th*
		24	*26*	*28*	*32*	*34*	*38*	*40*	*44*	*44*	*44*	*44*	*46*	*46*	*46*
8	**K 2 rows**														
9	**C. off loosely**														

4 PLY

RAGLAN SWEATER FRONT - ROUND OR POLO NECK

TENSION: 5.75 sts and 16.5 rows to 1" — **punchcard standard length**

TENSION: 5.75 sts and 20 rows to 1" — *punchcard double length*

SIZES:														
	ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1 Same as back until ★★★ sts remain		**32**	**34**	**36**	**40**	**44**	**46**	**50**	**52**	**54**	**56**	**56**	**58**	**58**	**58**
		28	*32*	*34*	*38*	*38*	*44*	*46*	*50*	*50*	*50*	*54*	*52*	*56*	*56*
2 C. off ★★★ sts at centre of work.		**12**	**14**	**14**	**16**	**18**	**20**	**20**	**22**	**22**	**22**	**22**	**24**	**24**	**24**
		12	*14*	*14*	*16*	*18*	*20*	*20*	*22*	*22*	*22*	*22*	*24*	*24*	*24*
3 Work on one half only and AT THE SAME TIME continue raglan shaping as before and dec 1st at neck edge on every 2nd row ★★★ times		**6**	**6**	**7**	**8**	**8**	**9**	**10**	**11**	**11**	**11**	**11**	**11**	**11**	**11**
		6	*6*	*7*	*8*	*8*	*9*	*10*	*11*	*11*	*11*	*11*	*11*	*11*	*11*
4 Continue raglan shaping until all sts are decreased															
5 Work second half of neck as first half, reversing all shapings.															

4 PLY RAGLAN SWEATER - LONG SLEEVES

TENSION: 5.75 sts and 16.5 rows to 1" — **punchcard standard length**
TENSION: 5.75 sts and 20 rows to 1" — *punchcard double length*

SIZES:														
	ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1	**C. on ★★★ stitches**	**34**	**34**	**34**	**38**	**38**	**46**	**46**	**46**	**52**	**52**	**52**	**52**	**52**	**52**
		34	*34*	*34*	*38*	*38*	*46*	*46*	*46*	*52*	*52*	*52*	*52*	*52*	*52*
2	**RC000. Knit hem 36 rows. rib 20 rows**														
3	**Insert punchcard & change to tuck stitch tension RC000.**														
4	**Knit and increase one stitch at each end of next and ev. foll. ★★★ row until increased to ★★★ sts**	**13th**	**10th**	**12th**	**14th**	**10th**	**11th**	**12th**	**9th**	**10th**	**10th**	**10th**	**9th**	**9th**	**9th**
		16th	*12th*	*15th*	*18th*	*13th*	*13th*	*9th*	*11th*	*12th*	*11th*	*11th*	*11th*	*11th*	*11th*
		46	**52**	**52**	**58**	**70**	**80**	**80**	**98**	**104**	**104**	**104**	**110**	**110**	**110**
		46	*52*	*52*	*58*	*70*	*80*	*80*	*98*	*104*	*104*	*104*	*110*	*110*	*110*
5	**Knit straight until RC reads ★★★ rows or length required.**	**82**	**90**	**116**	**148**	**174**	**190**	**206**	**248**	**264**	**264**	**264**	**280**	**280**	**280**
		100	*110*	*140*	*180*	*210*	*230*	*250*	*300*	*320*	*320*	*320*	*340*	*340*	*340*
6	**Commence raglan shaping by casting off ★★★ stitches at beg. of next 2 rows**	**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*	*6*
7	**K 2 rows. Dec 1st at each end of next and ev. foll 6th row until ★★★ sts remain.**	**38**	**44**	**46**	**44**	**40**	**38**	**46**	**44**	**48**	**50**	**94**	**80**	**92**	**90**
	7 K 2 rows. Dec 1st at each end of next and ev foll ★★★ row until ★★★ sts rem.	*6th*	*6th*	*6th*	*6th*	*8th*	*8th*	*8th*	*8th*	*8th*	*8th*	*6th*	*8th*	*6th*	*6th*
		22	*28*	*30*	*26*	*56*	*54*	*66*	*60*	*66*	*84*	*52*	*96*	*46*	*58*
8	**Continue to dec as on back until ★★★ sts rem.**	**8**	**10**	**8**	**10**	**16**	**22**	**22**	**36**	**40**	**40**	**40**	**40**	**40**	**40**
		8	*10*	*8*	*10*	*16*	*22*	*22*	*36*	*40*	*40*	*40*	*40*	*40*	*40*
9	**K 2 rows**														
10	**C. off loosely**														

4 PLY

RAGLAN SWEATER - SHORT SLEEVE

TENSION: 5.75 sts and 16.5 rows to 1" — **punchcard standard length**

TENSION: 5.75 sts and 20 rows to 1" — *punchcard double length*

SIZES:		**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1 C. on ★★★ stitches		**40**	**46**	**46**	**50**	**62**	**72**	**72**	**88**	**94**	**94**	**94**	**100**	**100**	**100**
		40	*46*	*46*	*50*	*62*	*72*	*72*	*88*	*94*	*94*	*94*	*100*	*100*	*100*
2 RC. 000. Knit hem 18 rows. rib 10 rows															
3 Insert punchcard & change to tuck stitch tension RC000.															
4 Knit and increase one stitch at each end of next and every foll. 2nd row until increased to ★★★ sts		**46**	**52**	**52**	**58**	**70**	**80**	**80**	**98**	**104**	**104**	**104**	**110**	**110**	**110**
		46	*52*	*52*	*58*	*70*	*80*	*80*	*98*	*104*	*104*	*104*	*110*	*110*	*110*
5 K until RC reads ★★★ rows or length required.		**10**	**10**	**10**	**12**	**12**	**12**	**12**	**20**	**20**	**20**	**20**	**30**	**30**	**30**
		14	*14*	*14*	*18*	*18*	*18*	*18*	*26*	*26*	*26*	*26*	*40*	*40*	*40*
6 Commence raglan by casting off ★★★ sts at beg next 2 rows		**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*	*6*
7 K 2 rows. Dec 1st at each end of next and ev. foll 6th row until ★★★ sts remain.		**38**	**44**	**46**	**44**	**40**	**38**	**46**	**44**	**48**	**50**	**94**	**80**	**92**	**90**
7 K 2 rows. Dec 1st at each end of next and ev foll ★★★ row until ★★★ sts rem.		*6th*	*6th*	*6th*	*6th*	*8th*	*8th*	*8th*	*8th*	*8th*	*8th*	*6th*	*8th*	*6th*	*6th*
		22	*28*	*30*	*26*	*56*	*54*	*66*	*60*	*66*	*84*	*52*	*96*	*46*	*58*
8 Continue to dec as on back until ★★★ sts rem.		**8**	**10**	**8**	**10**	**16**	**22**	**22**	**36**	**40**	**40**	**40**	**40**	**40**	**40**
		8	*10*	*8*	*10*	*16*	*22*	*22*	*36*	*40*	*40*	*40*	*40*	*40*	*40*
9 K 2 rows															
10 C. off loosely															

4 PLY
RAGLAN SWEATER FRONT - V NECK

TENSION: 5.75 sts and 16.5 rows to 1" — **punchcard standard length**
TENSION: 5.75 sts and 20 rows to 1" — *punchcard double length*

SIZES:	**ins**	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1 C. on ★★★ stitches and knit same as back until shape raglan.		**58**	**64**	**70**	**74**	**80**	**86**	**92**	**98**	**104**	**110**	**116**	**120**	**126**	**132**
		58	*64*	*70*	*74*	*80*	*86*	*92*	*98*	*104*	*110*	*116*	*120*	*126*	*132*
2 Commence raglan by casting off ★★★ sts at beg next 2 rows.		**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*	*6*
3 Place half Ns to H.P. and working over half work, continue raglan shaping as for back and AT THE SAME TIME decrease one stitch at neck edge on next and ev. foll. ★★★ row		**5th**	**5th**	**5th**	**5th**	**5th**	**6th**	**5th**	**6th**	**6th**	**6th**	**6th**	**6th**	**6th**	**6th**
		6th	*6th*	*6th*	*6th*	*7th*	*7th*	*7th*	*7th*	*8th*	*8th*	*8th*	*8th*	*8th*	*8th*
★★★ times in all		**12**	**13**	**14**	**16**	**17**	**19**	**20**	**22**	**22**	**22**	**22**	**23**	**23**	**23**
		12	*13*	*14*	*16*	*17*	*19*	*20*	*22*	*22*	*22*	*22*	*23*	*23*	*23*
4 Continue raglan shaping only until all stitches are decreased															
5 Work 2nd half of neck as for first half, reversing all shapings.															

4 PLY
RAGLAN CARDIGAN BACK

TENSION: 5.75 sts and 16.5 rows to 1" — punchcard standard length
TENSION: 5.75 sts and 20 rows to 1" — punchcard double length

SIZES:	ins	18	20	22	24	26	28	30	32	34	36	38	40	42	44
	cms	45	50	55	60	65	70	75	80	85	90	95	100	105	110
1 C. on ★★★ stitches		60	66	72	76	82	88	94	100	106	112	118	122	128	134
		60	*66*	*72*	*76*	*82*	*88*	*94*	*100*	*106*	*112*	*118*	*122*	*128*	*134*
2 RC000. Knit hem 36 rows. rib 20 rows.															
3 Insert punchcard and change to tuck stitch tension R.C. 000.															
4 K until RC reads ★★★rows		76	84	102	118	134	168	184	200	200	216	234	234	234	234
		92	*102*	*122*	*142*	*162*	*202*	*222*	*242*	*242*	*262*	*282*	*282*	*282*	*282*
5 Commence raglan shaping by casting of ★★★ sts at beg		2	2	3	3	4	4	4	4	5	5	5	6	6	6
next 2 rows		*2*	*2*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*	*6*
6 K 2 rows. Dec 1st at each end of next and ev. foll 6th row until ★★★ sts remain		52	58	66	62	52	46	60	46	50	68	108	92	110	114
6 K 2 rows. Dec 1st at each end of next and ev foll ★★★ row		*6th*	*6th*	*6th*	*6th*	*8th*	*8th*	*8th*	*8th*	*8th*	*8th*	*6th*	*8th*	*6th*	*6th*
until ★★★ sts remain		*36*	*42*	*50*	*44*	*68*	*62*	*80*	*62*	*68*	*92*	*66*	*108*	*64*	*82*
7 K 3 rows. Dec 1st at each end of next and ev. foll 4th row until ★★★ sts remain		26	28	30	34	36	40	42	46	46	46	46	48	48	48
7 K 3 rows. Dec 1st at each end of next and ev foll ★★★ row until		*4th*	*4th*	*4th*	*4th*	*6th*	*6th*	*6th*	*6th*	*6th*	*6th*	*4th*	*6th*	*4th*	*4th*
★★★ sts remain		*26*	*28*	*30*	*34*	*36*	*40*	*42*	*46*	*46*	*46*	*46*	*48*	*48*	*48*
8 K 2 rows															
9 C. off loosely															

4 PLY
RAGLAN CARDIGAN FRONT - ROUND NECK

TENSION: 5.75 sts and 16.5 rows to 1" — **punchcard standard length**
TENSION: 5.75 sts and 20 rows to 1" — *punchcard double length*

SIZES:														
ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1 C. on ★★★ stitches	**30**	**33**	**36**	**38**	**41**	**44**	**47**	**50**	**53**	**56**	**59**	**61**	**64**	**67**
	30	*33*	*36*	*38*	*41*	*44*	*47*	*50*	*53*	*56*	*59*	*61*	*64*	*67*
2 Knit same as back until shape raglan.														
3 Commence raglan by casting off ★★★ stitches at beg next row. K 3 rows.	**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
	2	*2*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*	*6*
4 Keeping neck edge straight dec raglan side only same as back until ★★★ sts remain.	**17**	**18**	**19**	**21**	**23**	**24**	**26**	**27**	**28**	**29**	**29**	**30**	**30**	**30**
	15	*17*	*18*	*20*	*20*	*23*	*24*	*26*	*26*	*26*	*28*	*27*	*29*	*29*
5 C. off ★★★ sts at neck edge	**6**	**7**	**7**	**8**	**9**	**10**	**10**	**11**	**11**	**11**	**11**	**12**	**12**	**12**
	6	*7*	*7*	*8*	*9*	*10*	*10*	*11*	*11*	*11*	*11*	*12*	*12*	*12*
6 Continue raglan shaping as before and AT SAME TIME decrease one stitch at neck edge on every 2nd row ★★★ times	**6**	**6**	**7**	**8**	**8**	**9**	**10**	**11**	**11**	**11**	**11**	**11**	**11**	**11**
	6	*6*	*7*	*8*	*8*	*9*	*10*	*11*	*11*	*11*	*11*	*11*	*11*	*11*
7 Decrease raglan side only until all sts have been decreased														
8 Knit second front to match first, reversing all shapings.														

4 PLY
RAGLAN CARDIGAN FRONT - V NECK

TENSION: 5.75 sts and 16.5 rows to 1" — punchcard standard length
TENSION: 5.75 sts and 20 rows to 1" — punchcard double length

SIZES:	**ins**	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1 C. on ★★★ sts		**30**	**33**	**36**	**38**	**41**	**44**	**47**	**50**	**53**	**56**	**59**	**61**	**64**	**67**
		30	*33*	*36*	*38*	*41*	*44*	*47*	*50*	*53*	*56*	*59*	*61*	*64*	*67*
2 K same as for back until shape raglan.															
3 Commence raglan by casting off ★★★ sts at beg of next row. K 1 row.		**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*	*6*
4 Decrease raglan as for back AT SAME TIME decrease 1 st at neck edge on next and every foll ★★★ row ★★★ times in all.		**5th**	**5th**	**5th**	**5th**	**5th**	**6th**	**5th**	**6th**	**6th**	**6th**	**6th**	**6th**	**6th**	**6th**
		6th	*6th*	*6th*	*6th*	*7th*	*7th*	*7th*	*7th*	*8th*	*8th*	*8th*	*8th*	*8th*	*8th*
		12	**13**	**14**	**16**	**17**	**19**	**20**	**22**	**22**	**22**	**22**	**23**	**23**	**23**
		12	*13*	*14*	*16*	*17*	*19*	*20*	*22*	*22*	*22*	*22*	*23*	*23*	*23*
5 Continue raglan shaping only until all sts have been decreased.															
6 Knit second front to match first, reversing all shapings.															

4 PLY RAGLAN CARDIGAN - LONG SLEEVES

TENSION: 5.75 sts and 16.5 rows to 1" — **punchcard standard length**
TENSION: 5.75 sts and 20 rows to 1" — *punchcard double length*

SIZES:														
	ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1	**C. on ★★★ stitches**	**36**	**36**	**36**	**40**	**40**	**48**	**48**	**48**	**54**	**54**	**54**	**54**	**54**	**54**
		36	*36*	*36*	*40*	*40*	*48*	*48*	*48*	*54*	*54*	*54*	*54*	*54*	*54*
2	**RC.000 Knit hem 36 rows rib 20 rows.**														
3	**Insert punchcard and change to tuck stitch tension RC. 000**														
4	**Knit and increase 1 st at each end of next and ev. foll ★★★ row until increased to ★★★ sts**	**13th**	**10th**	**12th**	**14th**	**10th**	**11th**	**12th**	**9th**	**10th**	**10th**	**10th**	**9th**	**9th**	**9th**
		16th	*12th*	*15th*	*18th*	*13th*	*13th*	*9th*	*11th*	*12th*	*11th*	*11th*	*11th*	*11th*	*11th*
		48	**54**	**54**	**60**	**72**	**82**	**82**	**100**	**106**	**106**	**106**	**112**	**112**	**112**
		48	*54*	*54*	*60*	*72*	*82*	*82*	*100*	*106*	*106*	*106*	*112*	*112*	*112*
5	**Knit straight until RC reads ★★★ or length required.**	**82**	**90**	**116**	**148**	**174**	**190**	**206**	**248**	**264**	**264**	**264**	**280**	**280**	**280**
		100	*110*	*140*	*180*	*210*	*230*	*250*	*300*	*320*	*320*	*320*	*340*	*340*	*340*
6	**Commence raglan shaping by casting off ★★★ stitches at beg next 2 rows.**	**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*	*6*
7	**K 2 rows. Dec 1st at each end of next and ev. foll 6th row until ★★★ sts rem.**	**40**	**46**	**48**	**46**	**42**	**40**	**48**	**46**	**50**	**52**	**96**	**82**	**94**	**92**
7	*K 2 rows. Dec 1st at each end of next and ev. foll ★★★ row until ★★★ sts rem*	*6th*	*6th*	*6th*	*6th*	*8th*	*8th*	*8th*	*8th*	*8th*	*8th*	*6th*	*8th*	*6th*	*6th*
		24	*30*	*32*	*28*	*58*	*56*	*68*	*62*	*68*	*86*	*54*	*98*	*48*	*60*
8	**Continue to decrease as on back until ★★★ sts remain**	**10**	**12**	**10**	**12**	**18**	**24**	**24**	**38**	**42**	**42**	**42**	**42**	**42**	**42**
		10	*12*	*10*	*12*	*18*	*24*	*24*	*38*	*42*	*42*	*42*	*42*	*42*	*42*
9	**K 2 rows.**														
10	**C. off loosely.**														

DOUBLE KNITTING
SWEATER BACK - ALL STYLES

TENSION: 5.25 sts and 13.75 rows to 1" — punchcard standard length
TENSION: 5 sts and 15 rows to 1" — punchcard double length

SIZES:	**ins**	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1 C. on ★★★ stitches		**52**	**58**	**64**	**68**	**74**	**78**	**84**	**90**	**94**	**100**	**106**	**110**	**116**	**120**
		50	*56*	*60*	*66*	*70*	*76*	*80*	*86*	*90*	*96*	*100*	*106*	*110*	*116*
2 RC.000 Knit hem 36 rows rib 20 rows.															
3 Insert punchcard and change to tuck st. tension RC000.															
4 K until RC reads ★★★ rows		**62**	**68**	**82**	**96**	**110**	**136**	**152**	**166**	**166**	**178**	**192**	**192**	**192**	**192**
		68	*76*	*90*	*106*	*120*	*150*	*166*	*180*	*180*	*196*	*210*	*210*	*210*	*210*
5 Commence raglan shaping by casting off ★★★ sts at beg		**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
next 2 rows		*2*	*2*	*3*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*
6 K 2 rows. Dec. 1st at each end of next and ev. foll 6th row until ★★★ sts remain		**44**	**52**	**58**	**62**	**52**	**46**	**60**	**50**	**48**	**66**	**84**	**80**	**98**	**102**
6 K 2 rows. Dec 1st at each end of next and ev. foll ★★★ row		*6th*	*6th*	*6th*	*6th*	*6th*	*6th*	*6th*	*8th*	*8th*	*7th*	*7th*	*7th*	*6th*	*6th*
until ★★★ sts remain.		*38*	*44*	*42*	*48*	*42*	*34*	*38*	*70*	*78*	*70*	*84*	*94*	*72*	*90*
7 K 3 rows. Dec 1st at each end of next and ev. foll 4th row until ★★★ sts rem		**22**	**24**	**26**	**28**	**32**	**34**	**36**	**40**	**40**	**40**	**40**	**42**	**42**	**46**
7 K 3 rows. Dec 1st at each end of next and ev. foll ★★★ row		*4th*	*4th*	*4th*	*4th*	*4th*	*4th*	*4th*	*6th*	*6th*	*5th*	*5th*	*5th*	*4th*	*4th*
until ★★★ sts remain.		*20*	*22*	*26*	*28*	*30*	*32*	*36*	*38*	*38*	*38*	*38*	*40*	*40*	*40*
8 K 2 rows.															
9 C. off loosely.															

DOUBLE KNITTING
SWEATER FRONT – ROUND AND POLO NECK

TENSION: 5.25 sts and 13.75 rows to 1" — **punchcard standard length**
TENSION: 5 sts and 15 rows to 1" — *punchcard double length*

SIZES:														
ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1 Same as back until ★★★ sts remain.	**32**	**38**	**40**	**42**	**44**	**46**	**50**	**54**	**56**	**62**	**68**	**68**	**74**	**74**
	26	*28*	*34*	*36*	*38*	*42*	*46*	*46*	*46*	*46*	*46*	*50*	*52*	*52*
2 C. off ★★★ sts at centre of work.	**12**	**12**	**14**	**14**	**16**	**16**	**18**	**20**	**20**	**20**	**20**	**22**	**22**	**24**
	10	*12*	*14*	*14*	*16*	*16*	*18*	*20*	*20*	*20*	*20*	*20*	*20*	*20*
3 Work on one half only and AT THE SAME TIME continue raglan shaping as before and dec. 1 st at neck edge on every 2nd row ★★★ times.	**5**	**6**	**6**	**7**	**8**	**9**	**9**	**10**	**10**	**10**	**10**	**10**	**10**	**11**
	5	*5*	*6*	*7*	*7*	*8*	*9*	*9*	*9*	*9*	*9*	*10*	*10*	*10*
4 Continue raglan shaping until all sts are decreased.														
5 Work second half of neck as first half, reversing all shapings.														

DOUBLE KNITTING
RAGLAN SWEATER FRONT - V NECK

TENSION: 5.25 sts and 13.75 rows to 1" — **punchcard standard length**
TENSION: 5 sts and 15 rows to 1" — *punchcard double length*

SIZES:														
ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1 Same as for sweater back until shape raglan														
2 Commence raglan by casting off ★★★ sts at the beg. of	**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
next 2 rows. Knit 2 rows.	*2*	*2*	*3*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*
3 Place half needles to holding position, and working on first half, decrease raglan as for back and **AT SAME TIME** decrease one stitch at neck edge on next	**5th**	**5th**	**4th**	**4th**	**5th**	**5th**	**5th**	**5th**	**6th**	**6th**	**6th**	**6th**	**6th**	**5th**
and ev. foll ★★★ row	*6th*	*6th*	*5th*	*5th*	*6th*	*5th*	*5th*	*6th*	*7th*	*7th*	*7th*	*7th*	*7th*	*7th*
★★★ times in all	**11**	**12**	**13**	**14**	**16**	**17**	**18**	**20**	**20**	**20**	**20**	**21**	**21**	**23**
	10	*11*	*13*	*14*	*15*	*16*	*18*	*19*	*19*	*19*	*19*	*20*	*20*	*20*
4 Continue raglan shaping only until all stitches have been decreased.														
5 Work second half of neck as first half, reversing all shapings.														

DOUBLE KNITTING - SWEATER - LONG SLEEVES

TENSION: 5.25 sts and 13.75 rows to 1" — **punchcard standard length**
TENSION: 5 sts and 15 rows to 1" -- *punchcard double length*

SIZES:														
	ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1	**Cast on ★★★ stitches**	**32**	**32**	**32**	**36**	**36**	**42**	**42**	**48**	**48**	**48**	**48**	**50**	**50**	**50**
		30	*30*	*30*	*36*	*36*	*40*	*40*	*46*	*46*	*46*	*46*	*48*	*48*	*48*
2	**RC000. Knit hem 36 rows. rib 20 rows.**														
3	**Insert punchcard and change to tuck stitch tension. RC000.**														
4	**Knit and increase one stitch at each end of ev. foll ★★★ row until increased to ★★★ sts.**	**13th**	**10th**	**10th**	**15th**	**12th**	**14th**	**10th**	**12th**	**12th**	**10th**	**9th**	**9th**	**8th**	**8th**
		20th	*13th*	*15th*	*25th*	*17th*	*15th*	*15th*	*20th*	*18th*	*14th*	*13th*	*13th*	*11th*	*10th*
		42	**46**	**50**	**52**	**60**	**64**	**74**	**80**	**84**	**90**	**96**	**100**	**106**	**106**
		40	*46*	*48*	*50*	*60*	*70*	*70*	*76*	*80*	*90*	*94*	*98*	*106*	*112*
5	**Knit until RC reads ★★★**	**68**	**76**	**96**	**124**	**144**	**158**	**172**	**206**	**220**	**220**	**220**	**234**	**234**	**234**
		100	*110*	*140*	*180*	*210*	*230*	*230*	*300*	*320*	*320*	*320*	*340*	*340*	*340*
6	**Commence raglan by casting off ★★★ sts at beg next 2 rows.**	**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*
7	**K 2 rows. Dec 1st at each end of next and ev foll 6th row until ★★★ sts remain.**	**34**	**42**	**44**	**46**	**38**	**42**	**50**	**40**	**38**	**56**	**74**	**70**	**88**	**88**
7	*K 2 rows. Dec 1st at each end of next and ev. foll ★★★ row until ★★★ sts remain*	*6th*	*6th*	*6th*	*6th*	*6th*	*6th*	*6th*	*8th*	*8th*	*7th*	*7th*	*7th*	*6th*	*6th*
		28	*34*	*28*	*28*	*32*	*28*	*28*	*60*	*68*	*64*	*78*	*86*	*68*	*86*
8	**K 3 rows. Dec 1st at each end of next and ev foll 4th row until ★★★sts remain.**	**12**	**12**	**12**	**12**	**18**	**20**	**26**	**30**	**30**	**30**	**30**	**32**	**32**	**32**
8	*K 3 rows. Dec 1st at each end of next and ev. foll ★★★ row until ★★★ sts remain.*	*4th*	*4th*	*4th*	*4th*	*4th*	*4th*	*4th*	*6th*	*6th*	*5th*	*5th*	*5th*	*4th*	*4th*
		10	*12*	*12*	*12*	*20*	*26*	*26*	*28*	*28*	*32*	*32*	*32*	*36*	*36*
9	**Knit 2 rows.**														
10	**C. off loosely.**														

DOUBLE KNITTING - SWEATER - SHORT SLEEVES

TENSION: 5.25 sts and 13.75 rows to 1" — **punchcard standard length**
TENSION: 5 sts and 15 rows to 1" — *punchcard double length*

SIZES:		**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1 C. on ★★★ sts.		**26**	**26**	**26**	**30**	**30**	**36**	**36**	**42**	**42**	**42**	**42**	**44**	**44**	**44**
		24	*24*	*24*	*30*	*30*	*34*	*34*	*40*	*40*	*40*	*40*	*42*	*42*	*42*
2 RC.000. Knit hem 18 rows. rib 10 rows															
3 Insert punchcard and change to tuck stitch tension RC000.															
4 K and increase one stitch at each end of every 2nd row until increased to ★★★ stitches.		**32**	**32**	**32**	**36**	**36**	**42**	**42**	**48**	**48**	**48**	**48**	**50**	**50**	**50**
		30	*30*	*30*	*36*	*36*	*40*	*40*	*46*	*46*	*46*	*46*	*48*	*48*	*48*
5 K until RC reads ★★★ rows or length required.		**10**	**10**	**10**	**14**	**14**	**18**	**20**	**30**	**30**	**30**	**40**	**40**	**40**	**40**
		12	*12*	*12*	*20*	*20*	*24*	*24*	*32*	*32*	*32*	*44*	*44*	*44*	*44*
6 Commence raglan by casting off ★★★ sts at beg. next 2 rows		**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*
7 K 2 rows. Dec 1st at each end of next and ev. foll 6th row until ★★★ sts remain.		**34**	**42**	**44**	**46**	**38**	**42**	**50**	**40**	**38**	**56**	**74**	**70**	**88**	**88**
7 K 2 rows. Dec 1st at each end of next and ev. foll ★★★ row until ★★★ sts rem.		*6th*	*6th*	*6th*	*6th*	*6th*	*6th*	*6th*	*8th*	*8th*	*7th*	*7th*	*7th*	*6th*	*6th*
		28	*34*	*28*	*28*	*32*	*28*	*28*	*60*	*68*	*64*	*78*	*86*	*68*	*86*
8 K 3 rows. Dec 1st at each end of next and ev. foll. 4th row until ★★★sts rem.		**12**	**12**	**12**	**12**	**18**	**20**	**26**	**30**	**30**	**30**	**30**	**32**	**32**	**32**
8 K 3 rows. Dec 1st at each end of next and ev. foll ★★★ row until ★★★ sts remain.		*4th*	*4th*	*4th*	*4th*	*4th*	*4th*	*4th*	*6th*	*6th*	*5th*	*5th*	*5th*	*4th*	*4th*
		10	*12*	*12*	*12*	*20*	*26*	*26*	*28*	*28*	*32*	*32*	*32*	*36*	*36*
9 Knit 2 rows.															
10 C. off loosely.															

DOUBLE KNITTING
CARDIGAN BACK - ALL STYLES

TENSION: 5.25 sts and 13.75 rows to 1" — **punchcard standard length**
TENSION: 5 sts and 15 rows to 1" — *punchcard double length*

SIZES:														
	ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1 C. on ★★★ stitches		**56**	**62**	**68**	**72**	**78**	**82**	**88**	**94**	**98**	**104**	**110**	**114**	**120**	**124**
		54	*60*	*64*	*70*	*74*	*80*	*84*	*90*	*94*	*100*	*104*	*110*	*114*	*120*
2 RC000. Knit hem 36 rows. rib 20 rows															
3 Insert punchcard & change to tuck stitch tension RC000.															
4 Knit until RC reads ★★★rows		**62**	**68**	**82**	**96**	**110**	**136**	**152**	**166**	**166**	**178**	**192**	**192**	**192**	**192**
		68	*76*	*90*	*106*	*120*	*150*	*166*	*180*	*180*	*196*	*210*	*210*	*210*	*210*
5 Commence raglan by casting off ★★★ sts at beg of next 2 rows		**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*
6 K 2 rows. Dec 1st at each end of next and ev. foll 6th row until ★★★ sts remain		**48**	**56**	**62**	**66**	**56**	**50**	**64**	**54**	**52**	**70**	**88**	**84**	**102**	**106**
6 K 2 rows. Dec 1st at each end of next and ev. foll ★★★ row until ★★★ sts remain		*6th*	*6th*	*6th*	*6th*	*6th*	*6th*	*6th*	*8th*	*8th*	*7th*	*7th*	*7th*	*6th*	*6th*
		42	*48*	*46*	*52*	*46*	*38*	*42*	*74*	*82*	*74*	*88*	*98*	*76*	*94*
7 K 3 rows. Dec 1st at each end of next and ev foll. 4th row until ★★★ sts remain.		**26**	**28**	**30**	**32**	**36**	**38**	**40**	**44**	**44**	**44**	**44**	**46**	**46**	**50**
7 K 3 rows. Dec 1st at each end of next and ev. foll ★★★ row until ★★★ sts remain		*4th*	*4th*	*4th*	*4th*	*4th*	*4th*	*4th*	*6th*	*6th*	*5th*	*5th*	*5th*	*4th*	*4th*
		24	*26*	*30*	*32*	*34*	*36*	*40*	*42*	*42*	*42*	*42*	*44*	*44*	*44*
8 K 2 rows															
9 C. off loosely															

DOUBLE KNITTING
CARDIGAN FRONT - ROUND NECK

TENSION: 5.25 sts and 13.75 rows to 1" — **punchcard standard length**
TENSION: 5 sts and 15 rows to 1" — *punchcard double length*

SIZES:	**ins**	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1 C. on ★★★ stitches		**28**	**31**	**34**	**36**	**39**	**41**	**44**	**47**	**49**	**52**	**55**	**57**	**60**	**62**
		27	*30*	*32*	*35*	*37*	*40*	*42*	*45*	*47*	*50*	*52*	*55*	*57*	*60*
2 Knit same as back until shape raglan.															
3 Commence raglan by casting off ★★★ sts at beg		**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
next row. K 3 rows.		*2*	*2*	*3*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*
4 Keeping neck edge straight dec raglan side only same as		**18**	**21**	**22**	**23**	**24**	**25**	**27**	**29**	**31**	**33**	**36**	**36**	**39**	**39**
back until ★★★ sts remain.		*15*	*16*	*19*	*20*	*21*	*23*	*25*	*25*	*25*	*25*	*25*	*27*	*28*	*28*
5 C. off ★★★ sts at neck edge		**6**	**6**	**7**	**7**	**8**	**8**	**9**	**10**	**10**	**10**	**10**	**11**	**11**	**12**
		5	*6*	*7*	*7*	*8*	*8*	*9*	*10*	*10*	*10*	*10*	*10*	*10*	*10*
6 Continue raglan shaping as before and AT SAME TIME															
decrease one stitch at neck edge		**5**	**6**	**6**	**7**	**8**	**9**	**9**	**10**	**10**	**10**	**10**	**10**	**10**	**11**
on every 2nd row ★★★ times		*5*	*5*	*6*	*7*	*7*	*8*	*9*	*9*	*9*	*9*	*9*	*10*	*10*	*10*
7 Decrease raglan side only until 2 sts remain C. off.															
8 Knit second front to match first, reversing all shapings.															

DOUBLE KNITTING
CARDIGAN FRONT - V NECK

TENSION: 5.25 sts and 13.75 rows to 1" — **punchcard standard length**
TENSION: 5 sts and 15 rows to 1" — *punchcard double length*

SIZES:														
ins	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
cms	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1 Cast on ★★★ sts.	**28**	**31**	**34**	**36**	**39**	**41**	**44**	**47**	**49**	**52**	**55**	**57**	**60**	**62**
	27	*30*	*32*	*35*	*37*	*40*	*42*	*45*	*47*	*50*	*52*	*55*	*57*	*60*
2 K same as for back until shape raglan.														
3 Commence raglan by casting off ★★★ sts at beg of next row K 1 row.	**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
	2	*2*	*3*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*
4 Decrease raglan as for back AT SAME TIME dec. 1st at neck edge on next and ev. foll ★★★ row ★★★ times in all.	**5th**	**5th**	**4th**	**4th**	**5th**	**5th**	**5th**	**5th**	**6th**	**6th**	**6th**	**6th**	**6th**	**5th**
	6th	*6th*	*5th*	*5th*	*6th*	*5th*	*5th*	*6th*	*7th*	*7th*	*7th*	*7th*	*7th*	*7th*
	11	**12**	**13**	**14**	**16**	**17**	**18**	**20**	**20**	**20**	**20**	**21**	**21**	**23**
	10	*11*	*13*	*14*	*15*	*16*	*18*	*19*	*19*	*19*	*19*	*20*	*20*	*20*

5 Continue raglan shaping only until 2 sts remain. C. off

6 Knit second front to match first, reversing all shapings.

DOUBLE KNITTING CARDIGAN – LONG SLEEVES

TENSION: 5.25 sts and 13.75 rows to 1" — punchcard standard length
TENSION: 5 sts and 20 rows to 1" — punchcard double length

SIZES:		**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**	**34**	**36**	**38**	**40**	**42**	**44**
	ins	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**
1 C. on ★★★ sts.		**34**	**34**	**34**	**38**	**38**	**44**	**44**	**50**	**50**	**50**	**50**	**52**	**52**	**52**
		32	*32*	*32*	*38*	*38*	*42*	*42*	*48*	*48*	*48*	*48*	*50*	*50*	*50*
2 RC.000 Knit hem 36 rows rib 20 rows.															
3 Insert punchcard and change to tuck stitch tension. RC 000.															
4 Knit and increase one stitch at each end of ev. foll ★★★ row until inc. to ★★★ sts.		**13th**	**10th**	**10th**	**15th**	**12th**	**14th**	**10th**	**12th**	**12th**	**10th**	**9th**	**9th**	**8th**	**8th**
		20th	*13th*	*15th*	*25th*	*17th*	*15th*	*15th*	*20th*	*18th*	*14th*	*13th*	*13th*	*11th*	*10th*
		44	**48**	**52**	**54**	**62**	**66**	**76**	**82**	**86**	**92**	**98**	**102**	**108**	**108**
		42	*48*	*50*	*52*	*62*	*72*	*72*	*78*	*82*	*92*	*96*	*100*	*108*	*114*
5 Knit until RC reads ★★★ rows.		**68**	**76**	**96**	**124**	**144**	**158**	**172**	**206**	**220**	**220**	**220**	**234**	**234**	**234**
		100	*110*	*140*	*180*	*210*	*230*	*230*	*300*	*320*	*320*	*320*	*340*	*340*	*340*
6 Commence raglan by casting off ★★★ sts at beg next 2 rows.		**2**	**2**	**3**	**3**	**4**	**4**	**4**	**4**	**5**	**5**	**5**	**6**	**6**	**6**
		2	*2*	*3*	*3*	*3*	*4*	*4*	*4*	*4*	*5*	*5*	*5*	*6*	*6*
7 K 2 rows. Dec 1st at each end of next and ev. foll 6th row until ★★★ sts remain.		**36**	**44**	**46**	**48**	**40**	**44**	**52**	**42**	**40**	**58**	**76**	**72**	**90**	**90**
7 K 2 rows. Dec 1st at each end of next and ev. foll ★★★ row until ★★★ sts rem		*6th*	*6th*	*6th*	*6th*	*6th*	*6th*	*6th*	*8th*	*8th*	*7th*	*7th*	*7th*	*6th*	*6th*
		30	*36*	*30*	*30*	*34*	*30*	*30*	*62*	*70*	*66*	*80*	*88*	*70*	*88*
8 K 3 rows. Dec 1st at each end of next and ev. foll 4th row until ★★★ sts remain.		**14**	**14**	**14**	**14**	**20**	**22**	**28**	**32**	**32**	**32**	**32**	**34**	**34**	**34**
8 K 3 rows. Dec. 1st at each end of next and ev. foll ★★★ row. until ★★★ sts rem		*4th*	*4th*	*4th*	*4th*	*4th*	*4th*	*4th*	*6th*	*6th*	*5th*	*5th*	*5th*	*4th*	*4th*
		12	*14*	*14*	*14*	*22*	*28*	*28*	*30*	*30*	*34*	*34*	*34*	*38*	*38*
9 K 2 rows.															
10 C. off loosely.															

KNITTING CARDIGAN WELTS ON THE RIBBER

Try this way for a neater edge.

Cast on over required no. of sts., having 1st and last st. on mainbed. After knitting the circular rows for selvedge, set machine for 1 x 1 rib knitting and bring 1 additional needle at each end to W.P. on the mainbed. Continue to knit welt as normal.

KNITTING NECKBANDS FOR ROUND NECK SWEATERS AND CARDIGANS ON THE RIBBER

Replace stitches from waste yarn of sweater back and front onto needles, right side facing you. Knit one row at M.T. Push ribber into position and transfer alt. needles to ribber. Insert ribber comb and knit 10R.

To achieve a firm turning, set ribber to **Slip** for 2 rows and knit these two rows on mainbed only.

Return to normal rib knitting and knit 10R.

Transfer ribber stitches to mainbed and knit 1. R. at M. T.

Knit several rows with waste yarn and release from machine. Pin neckband into position and backstitch through loops of last row of main yarn, stretching your work slightly whilst sewing. The two rows knitted on the mainbed only form a very definite turning line. In 3 ply yarns it is necessary to knit 3 or 4 rows on the same setting to achieve a good result.

THREE METHODS OF GRAFTING

ONE

A. Pick up loops and hang on needles.

B. When picking up loops on hem, pick up loops that are on the front half of hem.

C. Pull needle forward until the back stitch only falls behind its latch. Push back the needle until the latch is closed over the picked up stitches.

D. Push all needles to 'B' position.

E. Cast off all stitches loosely by hand.

TWO

A. Knit 1 row on very loose tension.

B. Cast off using crochet hook method.

C. Using needle and wool sew band to garment.

THREE METHODS OF GRAFTING (CONT'D)

THREE

A. Knit 2 rows of contrast colour.

B. Remove work from machine.

C. Undo contract colour and slip stitch open loops to garment.

NOTE: Method **ONE** gives you the firmest band.
Knit other side front same only place button holes as required.
Join shoulder or raglan seams. Wrong side of garment facing you pick up long loops around neck and top of bands just knitted. When picking up loop on top of front bands pick up same as you did on hem.

V NECK CARDIGAN

1. With shoulder or raglan seams joined, pick up long loops up cardigan front to one shoulder seam.
2. Knit as for round cardigan.
3. Pick up loops on other front up cardigan front and across back of neck so as to make only one join on shoulder seam.
4. Repeat item 2.

NOTE: On very large garments it may be necessary to have two joins. If this is necessary knit each front up to shoulder seams then knit across back of neck separately.

BUTTONHOLES

ANY SIZE BUTTONHOLE IF BUTTON-BAND IS KNITTED SEPARATELY AND STITCHED ON AFTERWARDS

1. Cast on by hand enough stitches for a double button-band.
2. Knit 6 rows, then cast off 4 stitches equally on either side of band i.e. if the finished size of the button-band is to be 12 stitches wide, then 24 stitches will have to be cast on. The buttonhole will then be worked on the 5th, 6th, 7th and 8th needles on one side of the band, and on the 17th, 18th, 19th and 20th needles on the other side of the band.
3. Push empty needles (where buttonhole stitches have been cast off from) into 'B' position (or working position) and knit 1 row.
4. Remove yarn from buttonhole needles and replace back on needle, twisting the yarn to form a stitch. Hold these stitches down by placing the nylon cord over the stitches, and carry on knitting to the next buttonhole.

QUICK TWO STITCH BUTTONHOLE

1. Using two stitches for buttonhole only, transfer each stitch outwards onto the next needle.
2. Bring one empty needle to 'B' position, and the second empty needle to 'holding' position.
3. Make sure that the levers which operate the needles are set so that they will leave needles in 'holding' position where they are, and knit 2 rows.
4. Set levers so that they will knit needles in 'holding' position, and carry on knitting to next buttonhole.

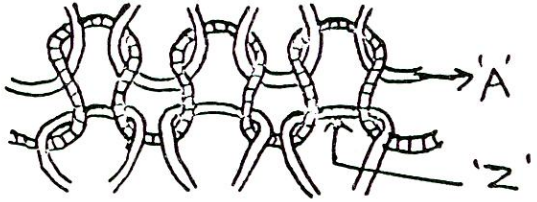
HORIZONTAL BUTTONHOLE

This type of band can be used for 'Golfer' V neck cardigans, or for shorter neck openings, or button-bands picked up and knitted sideways. Always pick 3 loose stitches then 1 knotted stitch right along pick-up edge. This will give a nice even edge to any knitting.

After picking up the stitches, set RC. 000 (Knowing that button-bands on a single bed machine have to be double, then a button-band width of 12 rows would have to be knitted, thus, assuming Tension 7 was the main tension for the garment, then 12 rows should be knitted on Tension 5, 1 row on Tension 8, and 12 rows on Tension 5. A normal

sized buttonhole can be knitted over 4 needles. If a longer one is required, then use MORE needles, and for a smaller button-hole, then use LESS needles). Knit one quarter of the total number of rows needed for the double band, i.e. 6 Rows. Manually knit the stitches for the buttonhole onto nylon cord then knit the second quarter of the total number of rows i.e. a further 6 rows. Work one row 2 tensions looser. Return to 2 tensions tighter and knit the 3rd quarter of rows, i.e. 6 rows.

To complete the working of the buttonholes.



With a single transfer tool, pick up the half pitch loop on the right hand side of the top half of the contrast yarn, 'A' on the illustration, and place it on the right hand needle of the buttonhole. Draw the needle forward so that the original stitch on the needle goes behind the latch and the new stitch stays in the hook. Return the needle to the 'B' position, so knitting the original stitch off. + Transfer the new stitch to the next left needle leaving the first (RH) needle empty. Pick up the second loop (centre) of the contrast wool onto the next needle and draw this loop through the two stitches. Repeat from + until 3 needles (or whatever number is used to make the buttonhole) are empty. Transfer the last stitch of the buttonhole onto the next left needle and draw through. This completes one side of the buttonhole. 4 needles should now be empty.

Second Side of the buttonhole

Using the single transfer tool, pick up the loops below the waste yarn, loop 'Z' and place them on the empty needles. Work each buttonhole in this way and continue knitting the final quarter of the rows, i.e. 6 rows. Run the stitches off onto waste yarn ready for picking up to the main part of the garment.

This method will provide a buttonhole which will be completely finished with a closed edge in a double band.

APPROXIMATE TENSIONS

3 ply — Tension 5

4 ply — Tension 7

Double Knitting — Tension 9